

## **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

### **LISTING OF CLAIMS**

1. (Original) An air ejection assembly for unsteady an exhaust plume discharged from an exhaust end of a turbine engine during operation, the air ejection assembly comprising:

an input port configured to receive air from the turbine engine; and

an output port in fluid communication with the input port;

wherein the output port is located adjacent to and outside of the exhaust end and configured to emit air to pierce a core of the exhaust plume.

2. (Original) The air ejection assembly according to claim 1, further comprising a fluid control valve in fluid communication between the input port and the output port for regulating the air emitted by the output port.

3. (Currently Amended) The air ejection assembly according to claim 1 or 2, wherein the input port is configured to receive compressed air from the turbine engine.

4. (Original) The air ejection assembly according to claim 3, wherein the input port is further configured to receive up to 4% of the compressed air within the turbine engine.

5. (Currently Amended) The air ejection assembly according to ~~any one~~ of the ~~preceding claims~~ claim 1, wherein the output port is located outside of the exhaust plume.

6. (Currently Amended) The air ejection assembly according to ~~any one~~ of the ~~preceding claims~~ claim 1, wherein the output port is configured to emit air in a continuous manner.

7. (Currently Amended) The air ejection assembly according to ~~any one~~ of the ~~preceding claims~~ claim 1, wherein the output port is configured to emit air at a converging angle of 30° to 90° relative to the longitudinal axis of the exhaust plume.

8. (Currently Amended) The air ejection assembly according to ~~any one~~ of the ~~preceding claims~~ claim 1, wherein the output port is a convergent nozzle.

9. (Currently Amended) The air ejection assembly according to ~~any one~~ of claim 1 to 7, wherein the output port is a convergent-divergent nozzle.

10. (Original) The air ejection assembly according to claim 2, wherein the fluid control valve is a pneumatic on/off valve or an electric on/off valve.

11. (Original) The air ejection assembly according to claim 2, wherein the fluid control valve is a pneumatic modulation valve or an electric modulation valve.

12. (Original) A turbine engine comprising:  
a compressor for compressing air drawing into the engine;  
a combustor to combust a mixture of the air compressed by the compressor and fuel drawn into the combustor;  
a turbine driven by the combusted air/fuel mixture; and  
an exhaust end for guiding an exhaust plume out of the turbine engine;  
an air ejection assembly as according to any one of the preceding claims.

13. (Original) The turbine engine according to claim 12, further comprising an afterburner disposed behind the turbine.

14. (Currently Amended) The turbine engine according to claim 12 or 13, wherein the exhaust end is an adjustable nozzle.

15. (Currently Amended) The turbine engine according to ~~any one of~~ claims 12 ~~to 15~~, wherein the input port of the air ejection assembly is configured for receiving air from the compressor.

16. (Original) A method of unsteading an exhaust plume discharge from a turbine engine comprising the steps of:

receiving air from of the turbine engine; and  
directing the air from a location adjacent to and outside of the exhaust end  
of the engine to pierce a core of the exhaust plume.

17. (Original) The method according to claim 16, wherein the air is ejected  
in a continuous manner.

18. (Currently Amended) The method according to claim 16 ~~or 17~~,  
wherein the air received is compressed.

19. – 21. (Cancelled)